

Claims

- [c1] 1. A buffer packing apparatus for packing a plurality of objects, comprising:
a plurality of rectangular partition boards parallel to and separated from each other by a specified distance so that the plurality of objects are supported, and each corner of each of the plurality of rectangular partition boards has a chamfer and side edges of each of the plurality of rectangular partition boards adjacent to the chamfers have a plurality of first slots; and
a plurality of buffer columns meshing with the plurality of rectangular partition boards near the corners to form buffering spaces having a plurality of second slots meshing with the plurality of first slots on the side edges of the plurality of rectangular partition boards to form a plurality of compartments for accommodating objects.
- [c2] 2. The buffer packing apparatus of claim 1, wherein each buffer column is a U-shaped column body having:
a support wall meshing into the rectangular partition boards to support the objects; and
a pair of meshing walls meshing into the rectangular partition boards, wherein each meshing wall is attached

to one side of the support wall and set in a direction perpendicular to the support wall.

[c3] 3. The buffer packing apparatus of claim 2, wherein the second slots on the U-shaped column bodies extend from the support wall into the meshing walls so that the buffer columns can mesh into the rectangular partition boards.

[c4] 4. The buffer packing apparatus of claim 2, wherein the side of the meshing walls not attached to the support wall has chamfered corners.

[c5] 5. The buffer packing apparatus of claim 1, wherein each buffer column furthermore comprises:
a pair of U-shaped column bodies meshing into the respective sides of a chamfered corner of the rectangular partition boards, and each U-shaped column body having:
a support wall meshing into the rectangular partition boards to support the wrap objects; and
a pair of meshing walls meshing into the rectangular partition boards, wherein each meshing wall is connected to the support wall and set in a direction perpendicular to the support wall; and
a connecting wall enclosing the chamfered corner of the rectangular partition boards and extending along adja-

cent sides of the board to connect with two U-shaped column bodies.

- [c6] 6. The buffer packing apparatus of claim 5, wherein the connecting wall attaches to the side of the meshing walls away from the chamfered corners.
- [c7] 7. The buffer packing apparatus of claim 5, wherein the second slots on the buffer columns extend from the support wall to a portion of the meshing walls.
- [c8] 8. The buffer packing apparatus of claim 5, wherein the side of the meshing walls not attached to the support wall has chamfered corners.
- [c9] 9. The buffer packing apparatus of claim 1, wherein the edges of each rectangular partition board between neighboring buffer columns have a buffering slot.
- [c10] 10. The buffer packing apparatus of claim 1, wherein material constituting the rectangular partition boards and the buffer columns is selected from a group of material consisting of chevron paper, packaging paper and paper-like substance.
- [c11] 11. A buffer packing apparatus for packing objects, comprising:
a plurality of rectangular partition boards parallel to each

other and separated from each other by a specified distance for accommodating the objects, wherein each rectangular partition board has chamfered corners, and the sides of the rectangular partition board close to the chamfered corner have a plurality of first slots;
a plurality of U-shaped column bodies meshing into the sides of chamfered corners, wherein each U-shaped column bodies has a plurality of second slots such that the second slots on the U-shaped column bodies mesh with the first slots on the edges of the rectangular partition boards, furthermore each U-shaped column bodies having:
a support wall meshing into the rectangular partition boards to support the wrap objects; and
a pair of meshing walls meshing into the rectangular partition boards, wherein each meshing wall is connected to the support wall but set in a direction perpendicular to the support wall; and
a connecting wall enclosing the chamfered corner of the rectangular partition boards and extending along adjacent sides of the board to connect with two U-shaped column bodies.

- [c12] 12. The buffer packing apparatus of claim 11, wherein the second slots on the U-shaped column bodies extend from the support wall to the meshing walls.

- [c13] 13. The buffer packing apparatus of claim 11, wherein the edges of the rectangular partition boards between neighboring the U-shaped column bodies have a buffering slot.
- [c14] 14. The buffer packing apparatus of claim 11, wherein material constituting the rectangular partition boards and the buffer columns is selected from a group of material consisting of chevron paper, packaging paper and paper-like substance.
- [c15] 15. The buffer packing apparatus of claim 11, wherein the side of the meshing walls not attached to the support wall has chamfered corners.